

Cross-Cultural Adaptation, Validity, and Reliability of the Persian Version of the Orebro Musculoskeletal Pain Screening Questionnaire

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Study Design: Observational study.

Purpose: To cross-culturally translate the Orebro Musculoskeletal Pain Screening Questionnaire (OMPQ) into Persian and then evaluate its psychometric properties (reliability, validity, ceiling, and flooring effects).

Overview of Literature: To the authors' knowledge, prior to this study there has been no validated instrument to screen the risk of chronicity in Persian-speaking patients with low back pain (LBP) in Iran. The OMPQ was specifically developed as a self-administered screening tool for assessing the risk of LBP chronicity.

Methods: The forward-backward translation method was used for the translation and cross-cultural adaptation of the original questionnaire. In total, 202 patients with subacute LBP completed the OMPQ and the pain disability questionnaire (PDQ), which was used to assess convergent validity. 62 patients completed the OMPQ a week later as a retest.

Results: Slight changes were made to the OMPQ during the translation/cultural adaptation process; face validity of the Persian version was obtained. The Persian OMPQ showed excellent test-retest reliability (intraclass correlation coefficient=0.89). Its internal consistency was 0.71, and its convergent validity was confirmed by good correlation coefficient between the OMPQ and PDQ total scores ($r=0.72, p<0.05$). No ceiling or floor effects were observed.

Conclusions: The Persian version of the OMPQ is acceptable for the target society in terms of face validity, construct validity, reliability, and consistency. It is therefore considered a useful instrument for screening Iranian patients with LBP.

Keywords: Disability; Orebro Musculoskeletal Pain Screening Questionnaire; Persian version; Reliability; Validity

Introduction

Work-related musculoskeletal disorders (MSDs) constitute a huge global health problem, leading to substantial economic and human costs as well as having a negative impact on the quality of life. The most frequently reported

subcategory of MSDs is injuries to the back and spine, accounting for 51.7% of cases [1]. Low back pain (LBP) is a very common health problem worldwide and a major cause of disability, affecting performance and general wellbeing. It is considered to be among the top 10 causes of employee absenteeism in the workplace and accounts

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for about 12.5% of all sick leaves worldwide [2]. Mousavi et al. [3] reported LBP to be common in Iran and an important cause of disease burden, in particular among the most productive ages (15 to 69 years) in both males and females. They reported the prevalence of LBP in the Iranian general population, working population, school children, and pregnant women was in the range of 14.4%–84.1% [3].

The transition from acute back pain to chronic disability is one of the major concerns in the management of LBP, given its high social and financial costs [4]. Recent studies have revealed psychosocial factors that are related to future disability and play an important role in the development of chronicity and delayed return to work; these are referred to as “yellow flags” [5]. The early and proper detection of LBP patients at risk of disability and the application of effective rehabilitation strategies are important not only for patients and health care professionals but also for governments and policy makers for developing early interventions with the aim of minimizing work absenteeism and health care costs as well as enhancing the quality of life [6].

Several self-reported back-specific questionnaires have been developed for individuals with LBP [7-9]. The Orebro Musculoskeletal Pain Screening Questionnaire (OMPQ), developed by Linton and Hallden [10] in 1998, is used in various clinical settings [5,11]. One specific advantage of the OMPQ is assisting in the early detection of yellow flags [12]. It is considered a reference measure with regard to screening subacute LBP patients at risk of disability and persistent pain [11]. This instrument has been validated across multiple clinical settings and cultures [13-15]. The use of an instrument in a different culture requires that the items are translated well linguistically and that they are adapted culturally to maintain the content validity of the tool at the same conceptual level across different cultures [16]. In Iran, prior to this study, there has been no specific evaluation measure for screening LBP patients at the risk of disability. Therefore, the purpose of this study was the translation and cultural adaptation of the OMPQ for use in Iran and the quantitative evaluation of the validity and reliability of its Persian version.

Materials and Methods

The original OMPQ in English [10] was used as the basis for cross-cultural adaptation in this study. The Persian

version of pain disability questionnaire (PDQ) [17] was applied to test the concurrent validity of the questionnaire.

1. Translation and cross-cultural adaptation

The procedure adopted in this study was mainly based on the protocol of Bullinger et al. [18]. There are two major steps when translating any questionnaire from its original language into another language: cultural adaptation and evaluation of the validity and reliability of the questionnaire. Permission for translation was obtained from the initial developer (Dr. S.J. Linton, Orebro University, Sweden). During forward translation, two independent native Persian speakers translated the OMPQ from English to Persian. The translators and researchers then compared the two translated versions with the original questionnaire [18] and reached a consensus. Following this, two independent native English speakers who were proficient in the Persian language independently performed a backward translation, and after consultation, they made the required revisions. The resulting translated English version was compared with the original one with respect to conceptual equivalence by a team of translators and researchers (a physiotherapist, a psychologist, and an occupational medicine specialist) [18]. This pre-final Persian OMPQ questionnaire was then piloted in the presence of one of the assessors (A.S.) on 30 patients with LBP who volunteered to participate in the study and provided written informed consent. These participants were not included in the main study. The simplicity, clarity, and general translation quality of the questionnaire were verified by most pilot study participants. After iteratively implementing points raised in the patients' feedback, the final version was sent to Dr. Linton, who confirmed the conceptual equality of the created backward English questionnaire and the original OMPQ.

2. Participants

A sample of 202 native Persian speakers with subacute LBP was recruited as volunteers from rehabilitation centers in Tehran, Iran, between April 2014 and December 2014. The inclusion criteria were age between 22 and 52 years and subacute LBP of less than 10-week duration. Exclusion criteria were pregnancy, recent surgery, neurological impingement syndrome, tumors, suspected inflammatory

arthritis, fractures, or requirement of referral to a further medical specialist. The participants were fully informed about the study and signed an informed consent form. The study was approved by the ethics committee of the University of Social Welfare and Rehabilitation Sciences.

In the first session, the participants completed both the OMPQ and PDQ in the clinic waiting room. To evaluate test-retest reliability, 62 participants with the assumption of clinical stability completed the OMPQ at the same location 3 to 7 days later. The time interval between test and retest was selected to reduce the possibility of the participants remembering their previous responses [19].

3. Instruments

The OMPQ is a 25-item self-report questionnaire for the early diagnosis of patients susceptible to the progression of permanent and long-term musculoskeletal pain [10,12]. It is valuable in predicting disability caused by occupational disorders and in predicting delays in returning to work because of musculoskeletal problems [20]. In addition, this screening tool enables a practitioner to identify possible risk factors and apply appropriate interventions to reduce the risk of long-term disability in injured workers [21]. The OMPQ can be completed 5 to 10 minutes; the score (in a range of 0–210) is derived from the sum of the scores of 21 items, with higher scores indicating a greater risk of chronic disability [21]. The predictability, validity, and reliability of the OMPQ have been evaluated in countries such as Sweden [21] and France [20].

The PDQ, developed by Anagnostis et al. [17] in 2004, is used to measure pain caused by work [18]. It has two parts, covering functional and social–mental conditions [17]. The score (in a range of 0 to 150, indicating optimal function to complete disability) is calculated as the sum of the scores of 15 items. The PDQ has been translated into various languages, and its validity and reliability have been demonstrated [17]. The Persian version of the PDQ was created by Marbouti et al. [22] in 2011, and its psychometric properties have been reported. In this study, the Persian PDQ was used as an external measure of disability.

4. Evaluation of psychometric characteristics

Psychometric characteristics include test-retest reliability, internal consistency, construct validity, face validity, and ceiling and floor effects. In this study, we assessed

two aspects of reliability as test-retest reliability and internal consistency. Intraclass correlation coefficient (ICC 2.1) was used to evaluate the relative reliability. $ICC \geq 0.70$ was considered acceptable for test-retest reliability [23]. A paired *t*-test was applied to the results of two sessions with the aim of systematically validating the mean OMPQ score. To estimate the measurement accuracy, the standard error of measurement (SEM) was obtained as a reliability index using a variance table [23]. Internal consistency was assessed by Cronbach's α coefficient for the whole questionnaire; acceptable values were those at or above 0.70 [24]. The face validity was determined, as described above, by recruiting 30 patients with LBP to a pilot study to assess whether the items in the questionnaire were simple, clear, and understandable [25]. To measure the convergent validity of the OMPQ, the participants in the main study completed the PDQ at the same time, with the expectation that those with higher scores in the OMPQ would have higher scores in the PDQ. The correlation between the two questionnaires was evaluated by Spearman correlation analysis, with no assumption that the data were normally distributed. Ceiling and floor effects were assessed by counting the number of participants who scored the minimum (0) or maximum (210) OMPQ score in the first session, taking the effects into consideration if 15% of the participants scored either of these values [26]. All statistical analyses were conducted using the SPSS ver. 19.0 (IBM Corp., Armonk, NY, USA) for Windows. The significance level was set at $p < 0.05$.

Results

1. Participant characteristics

In total, 202 patients suffering from LBP (54 men, 148 women) participated in this study. The mean age was 34.38 (standard deviation [SD], 6.18) years, mean total work experience was 8.85 (SD, 5.41) years, and mean work hours per week were 38.11 (SD, 6.06) hours. The mean duration of their condition was 50.60 (SD, 13.70) days. The participants' demographic and occupational characteristics are presented in Table 1.

2. Translation process and cultural adaptation

The cultural adaptation process included forward translation, assessment of the quality of the translation, and

Table 1. Occupational and demographic characteristics of participants completing the OMPQ (n=202)

Variable	No. (%)	Mean±SD
Sex		
Male	54 (26.7)	-
Female	148 (73.3)	-
Educational level		
Less than high school diploma	3 (1.5)	-
High school diploma	53 (26.2)	-
BSc and higher	146 (72.3)	-
Marital status		
Single	36 (17.8)	
Married	166 (82.2)	
Age (yr)	-	34.4±6.2
Duration of disease (day)	-	50.6±13.7
Work experience (yr)	-	8.9±5.4
Working hours per week	-	38.1±6.1

OMPQ, Orebro Musculoskeletal Pain Screening Questionnaire; SD, standard deviation; BSc, Bachelor of Science.

backward translation. During the forward-backward translation process, it was decided to change the first four demographic items into an interrogative form, transforming the 25-item original questionnaire into a 21-item instrument. In the demographics section, questions related to marital status, work experience, average working hours/week, and education level were added, whereas the question “Are you born in Australia?” was removed. Six participants proposed changing the items numbered 6, 17, and 18 and seven participants proposed adding a guide to the questionnaire. Item 6 “Show your mean pain during three last months with one of following numbers” was changed to “How severe was your pain during the past 3 months on a scale of 1–10?” and items 17 and 18 were changed from “I can do light work up to one hour” and “I can walk up to one hour” to “I can do light work for 1 hour” and “I can walk for 1 hour,” respectively. Additional information was introduced for guidance at the beginning of the questionnaire: “In some questions, there is a scale of 1–10, which shows minimum and maximum scores. Please circle the number that correctly indicates your current condition.” The final Persian OMPQ is presented in Appendix 1.

3. Evaluation of psychometric characteristics

As shown in Table 2, ICC for the whole questionnaire

was 0.89, indicative of very high and optimum reliability. Paired *t* test results showed that there was no significant difference between scores for the OMPQ in the two sessions, which indicated that there was no systematic error ($p=0.432$). Cronbach’s α value for the whole questionnaire was 0.71; when each item was omitted individually, Cronbach’s α values were in the range of 0.66–0.76. Based on these statistical results, the contribution of questions 1, 13, and 15 was lower than the others; if omitted, Cronbach’s α value would increase to 0.76. SEM for the questionnaire was 3.2, indicating absolute reliability (Table 2).

The convergent validity of the OMPQ and PDQ was assessed using Spearman’s correlation analysis. The results showed a highly significant correlation between the total scores for the Persian OMPQ and PDQ ($r=0.72$, $p<0.05$), demonstrating the convergent validity of the OMPQ. The percentages of the respondents who obtained the minimum score (63, 1.5%) or maximum score (155, 0.5%) for the OMPQ did not reach the threshold of 15; therefore, ceiling and floor effects did not need to be taken into consideration. The minimum and maximum scores for the PDQ were found to be 12 and 130, respectively.

Discussion

The purpose of this study was the translation and cultural adaptation of the OMPQ questionnaire into Persian and

Table 2. Test-retest reliability and internal consistency of the Persian version of OMPQ

Questionnaire	Mean±SD		SEM	ICC	95% Confidence interval of ICC	Cronbach's alpha (n=62)
	Test (n=62)	Retest (n=62)				
Persian version of OMPQ	104.7±7.66	105.2±7.122	3.2	0.89	0.70–0.93	0.71

Values for the test and retest are presented as mean±SD.

Cronbach's alpha is based on the first assessment day.

OMPQ, Orebro Musculoskeletal Pain Screening Questionnaire; SD, standard deviation; SEM, standard error of measurement; ICC, intraclass correlation coefficient.

measurement and evaluation of the psychometric characteristics of this instrument.

In the original questionnaire, the early questions about demographic information did not contribute to the total score; during the process of cultural adaptation, the team of translators and experts agreed to present these in a separate section at the beginning of the questionnaire. Additional items about marital status, work experience, mean work hours/week, and educational level were included in the questionnaire. The question "Are you born in Australia?" was removed without replacement because the majority of people in Iran are Iranian. To enhance clarity, a brief explanation that "0 indicates minimum and 10 indicates maximum" was added at the start of the questionnaire.

Item 6 "Show your mean pain during three last months" was changed to "How severe was your pain during the past 3 months?" because pain severity is more tangible in Persian people; and, as described earlier, "up to" in items 17 and 18 was changed to "for." Again, the reason for these changes was to improve clarity and enhance the ease of understanding based on the feedback provided during the pilot study. However, in general, the participants had no difficulty in understanding and completing the Persian version of the OMPQ.

The results demonstrated high agreement between measurements recorded on two occasions a week apart. The test-retest reliability analysis results showed ICC=0.89, indicating high reliability [23]. Linton and Hallden [10], in a pilot study for the original OMPQ that included 27 participants and a test-retest interval of one week, obtained a Pearson correlation coefficient of 0.83. Thus, the result for the test-retest reliability of the Persian OMPQ was similar to that for the original OMPQ. It was also similar to the results of Opsommer et al. [27] (ICC=0.89) and Grotle et al. [25] (ICC=0.9).

SEM obtained in this study (3.2) was much lower than

that obtained for the Swiss population in the study of Opsommer et al. [27] (10.1), indicating that the absolute reliability of the Persian OMPQ was higher. This is important because the magnitude of the change in the OMPQ questionnaire should be greater than SEM when evaluating real changes over time.

The assessment of the internal consistency of the items showed homogeneity between individual participants' total scores for one sample in the two tests performed a week apart. Cronbach's α value for the Persian OMPQ was 0.71; when items were extracted individually, the value varied between 0.69 and 0.76. The results should be interpreted with caution because Cronbach's α value depends on the number of items in a scale or questionnaire, item interrelatedness, and dimensionality [28]. The result for internal consistency obtained in this study was close to Cronbach's α value achieved for the Brazilian-Portuguese version of the OMPQ [29] but not similar to that achieved for the Norwegian version [25].

Convergent validity was assessed by evaluating the correlation between the total scores of the equivalent Orebro questionnaire and PDQ. The results showed a significant correlation between the total scores for the PDQ and OMPQ ($r=0.72$, $p<0.05$); however, this significant correlation was expected given that the PDQ also includes questions regarding pain and disability. In comparison, Nonclercq and Berquin [20] found a moderate correlation between the Oswestry disability index (ODI) and OMPQ scores. One explanation for this difference was the smaller sample size ($n=91$) in that study. In addition, they used a nonvalidated French version of the ODI [20].

As expected, no ceiling or floor effects were observed in the present study. This was in accordance with the result for the Brazilian-Portuguese version [29] and indicated the capability of the Persian version of the OMPQ to identify clinical differences. One of the strengths of this study was the synchronous evaluation of the question-

naire's validity and reliability along with adaptation in a particular culture/language. A 1-week time interval was used for the test-retest reliability study; a different interval may have resulted in a different outcome. For phenomena that change over time, shorter time intervals should be selected. However, short intervals may lead to an artificial estimation of reliability because participants may regulate their answers by remembering previous answers or through training effects [27].

One of the limitations of this study was that the predictability of the Persian OMPQ was not assessed; such an assessment is strongly recommended in future investigations. Several other questionnaires could have been selected to assess convergent validity; however, similar results would be expected. Further studies with larger sample sizes are needed to examine clinical application and the disability predictive capabilities of the questionnaire.

Conclusions

This study established the internal consistency, construct validity, and reliability of the Persian OMPQ in a population of patients suffering from subacute LBP (n=202). The results of this study provide further support for the standard use of OMPQ in primary care settings.

Conflict of Interest

No potential conflict of interest relevant to this article was reported.

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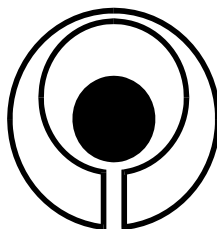
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Appendix 1. Orebro Musculoskeletal Pain Questionnaire



نسخه فارسی پرسشنامه درد اسکلتی عضلانی اربرو

Orebro Musculoskeletal Pain Questionnaire (OMPQ)

ابزار اندازه گیری درد و ناتوانی شغلی

➤ کلیه حقوق برای مولفین نسخه فارسی پرسشنامه محفوظ است
➤ استفاده از این پرسشنامه منوط به اجازه کتبی از
دانشگاه علوم بهزیستی و توانبخشی تهران، گروه
ارگونومی است.

پرسشنامه مشکلات اسکلتی عضلانی "اربرو"

"

نام و نام خانوادگی: سن: جنسیت: شماره تماس:
 تاریخ تکمیل پرسشنامه: سابقه کار بر حسب سال: میزان تحصیلات:
 وضعیت تاهل: تاریخ آسیب دیدگی: روز ماه سال متوسط ساعت کار در هفته:
 ساعت

این پرسشنامه در مواردی که در ناحیه کمر، گردن و شانه درد دارید کاربرد دارد. لطفا پرسشنامه را با دقت خوانده و پاسخ دهید. برای هر پرسش یک پاسخ متناسب با شرایط فعلی خود بدهید.

"در تعدادی از سئوالات مقیاس درجه بندی 0 تا 10 در نظر گرفته شده است که نشان دهنده حداقل و حداکثر مقادیر موجود می باشد." لطفا با دایره کشیدن دور هر کدام از اعداد، پاسخ مناسب با شرایط حال حاضر خود را بیان می کنید.

×2 حداکثر 10	<p>1. در کدام قسمت بدن خود درد دارید؟ (موارد مناسب را علامت بزنید)</p> <p style="text-align: center;"> <input type="checkbox"/> گردن <input type="checkbox"/> شانه <input type="checkbox"/> بازو <input type="checkbox"/> پا </p> <p style="text-align: center;"> <input type="checkbox"/> قسمت فوقانی پشت <input type="checkbox"/> قسمت تحتانی پشت <input type="checkbox"/> سایر نواحی </p>
	<p>2. در طول 18 ماه گذشته چند روز کاری به دلیل درد، سر کار خود نرفته اید؟ (یک مورد را علامت بزنید)</p> <p style="text-align: center;"> <input type="checkbox"/> 0 روز <input type="checkbox"/> 1-2 روز <input type="checkbox"/> 3-7 روز <input type="checkbox"/> 8-14 روز <input type="checkbox"/> 15-30 روز <input type="checkbox"/> 1 ماه <input type="checkbox"/> 2 ماه <input type="checkbox"/> 3-6 ماه <input type="checkbox"/> 6-12 ماه <input type="checkbox"/> بیشتر از 1 سال </p>
	<p>3. چه مدت است که این درد را دارید؟ (یک مورد را علامت بزنید)</p> <p style="text-align: center;"> <input type="checkbox"/> کمتر از یک هفته <input type="checkbox"/> 1-2 هفته <input type="checkbox"/> 3-4 هفته <input type="checkbox"/> 4-5 هفته <input type="checkbox"/> 6-8 هفته <input type="checkbox"/> 9-11 هفته <input type="checkbox"/> 3-6 ماه <input type="checkbox"/> 6-9 ماه <input type="checkbox"/> 9-12 ماه <input type="checkbox"/> بیش از 1 سال </p>
	<p>4. آیا کار شما سنگین یا یکنواخت است؟ (مناسب ترین حالت را علامت بزنید)</p> <p style="text-align: center;"> 0 1 2 3 4 5 6 7 8 9 10 نه اصلا خیلی زیاد </p>
	<p>5. میزان دردی را که طی یک هفته گذشته داشته اید را با یکی از اعداد زیر مشخص کنید. (دور یک مورد خط بکشید).</p> <p style="text-align: center;"> 0 1 2 3 4 5 6 7 8 9 10 </p>

	بدون درد شدید	خیلی
	6. در طول سه ماه گذشته، به طور متوسط درد شما در یک مقیاس صفر تا ده چقدر شدید بوده است؟ (دور یک مورد خط بکشید)	0 1 2 3 4 5 6 7 8 9 10
	بدون درد درد خیلی شدید	
	7. در طول سه ماه گذشته به طور متوسط چقدر تجربه درد داشته اید؟ (دور یک مورد خط بکشید)	0 1 2 3 4 5 6 7 8 9 10
	اصلا اغلب اوقات	
10-x	8. اقداماتی که طی روز برای کاهش یا مقابله با دردتان انجام می دهید به طور متوسط چقدر دردتان را کاهش می دهد؟	0 1 2 3 4 5 6 7 8 9 10
	اصلا کاهش نمی دهد کاملا کاهش می دهد.	
	9. در طول هفته گذشته تا چه اندازه مضطرب یا عصبی بوده اید؟ (دور یک مورد خط بکشید)	0 1 2 3 4 5 6 7 8 9 10
	اصلا اضطراب نداشته ام شدیدی داشته ام	اضطراب
	10. در طول هفته گذشته به خاطر احساس افسردگی چه مقدار اذیت شده اید؟ (دور یک مورد خط بکشید)	0 1 2 3 4 5 6 7 8 9 10
	اصلا خیلی زیاد	
	11. تا چه اندازه احتمال می دهید که دردتان دائمی شود؟ (دور یک مورد خط بکشید)	0 1 2 3 4 5 6 7 8 9 10
	اصلا به احتمال زیاد	
10-x	12. تا چه اندازه احتمال می دهید که در شش ماه آینده با وجود دردی که دارید بتوانید به کارتان ادامه دهید؟ (دور یک مورد خط بکشید)	0 1 2 3 4 5 6 7 8 9 10
	اصلا احتمال نمی دهم به احتمال زیاد	
10-x	13. با در نظر گرفتن مواردی مثل روند کاری، مدیریت، حقوق، ارتقا شغلی و همکاران خود تا چه اندازه از کار خود رضایت دارید؟	0 1 2 3 4 5 6 7 8 9 10
	اصلا راضی نیستم کاملا راضی هستم	
	برای هر یک از جملات زیر بر اساس مقیاس صفر تا ده نشان دهید که چه مقدار فعایت هایی مثل خم شدن، راه رفتن، باربرداری و رانندگی کردن بر روی درد شما تاثیرگذار است.	

	14. فعالیت فیزیکی، درد من را بدتر می کند. 0 1 2 3 4 5 6 7 8 9 10 کاملاً مخالفم موافقم کاملاً
	15. وقتی درد شدید می شود نشان دهنده این است که باید دست از کار بکشم تا دردم کاهش یابد. 0 1 2 3 4 5 6 7 8 9 10 کاملاً مخالفم موافقم کاملاً
	16. با وجود دردی که دارم نباید کارمعمول خود را انجام بدهم. 0 1 2 3 4 5 6 7 8 9 10 کاملاً مخالفم موافقم کاملاً
10-x	17. می توانم به اندازه یک ساعت، کار سبک انجام دهم. 0 1 2 3 4 5 6 7 8 9 10 اصلاً نمی توانم بدون هیچ مشکلی می توانم
10-x	18. می توانم به اندازه یک ساعت پیاده روی کنم. 0 1 2 3 4 5 6 7 8 9 10 اصلاً نمی توانم بدون هیچ مشکلی می توانم
10-x	19. می توانم کارهای روزمره خود را انجام دهم. 0 1 2 3 4 5 6 7 8 9 10 اصلاً نمی توانم بدون هیچ مشکلی می توانم
10-x	20. می توانم خرید هفتگی خود را انجام دهم. 0 1 2 3 4 5 6 7 8 9 10 اصلاً نمی توانم بدون هیچ مشکلی می توانم
10-x	21. می توانم شب ها بخوابم. 0 1 2 3 4 5 6 7 8 9 10 اصلاً نمی توانم بدون هیچ مشکلی می توانم